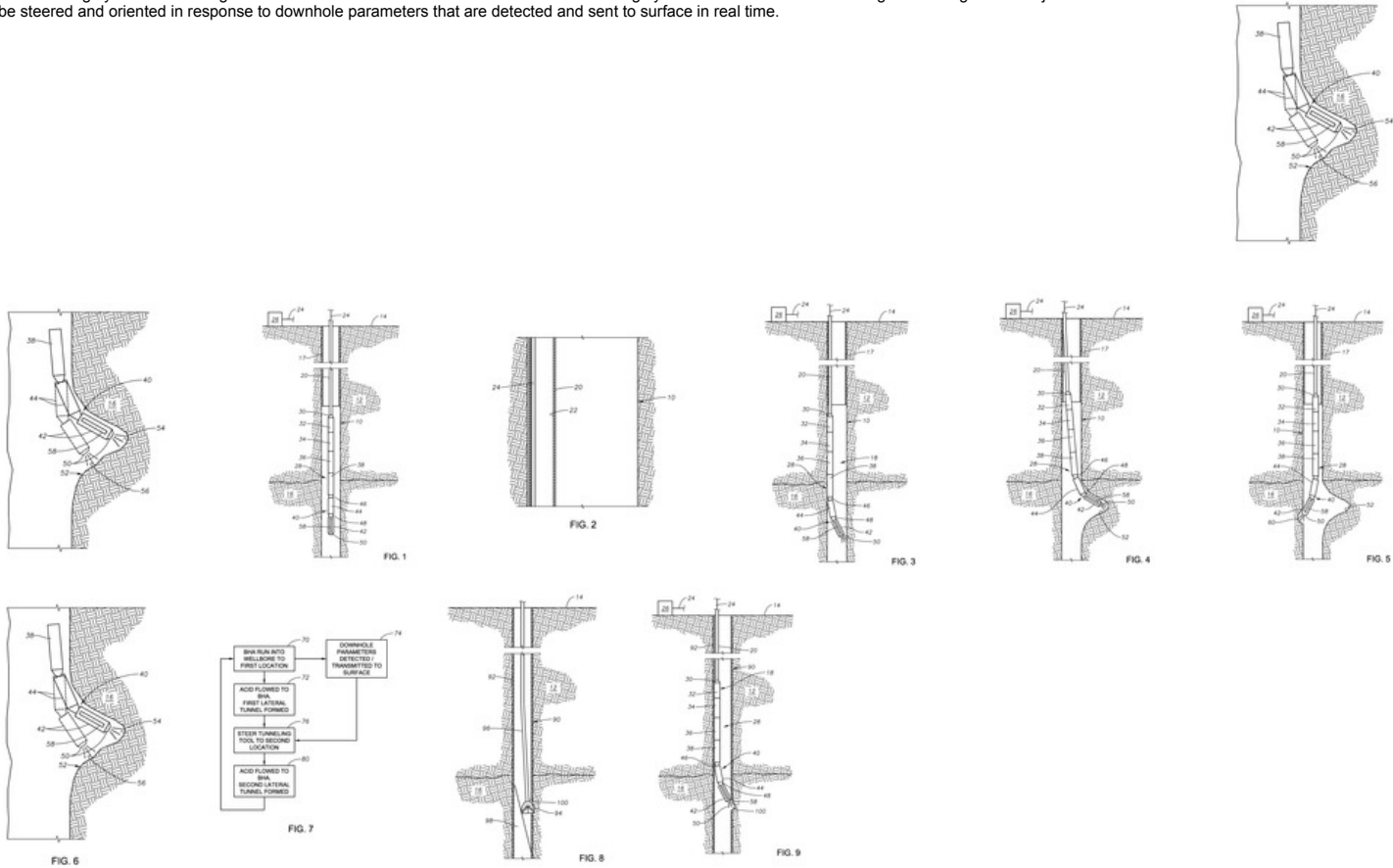


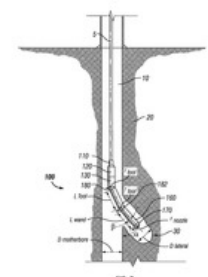
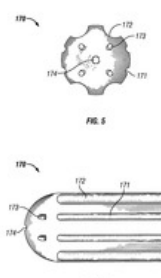
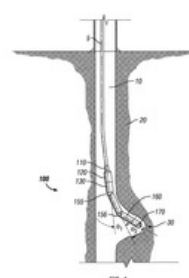
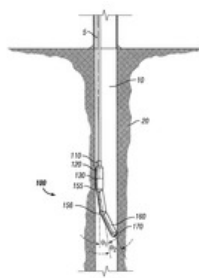
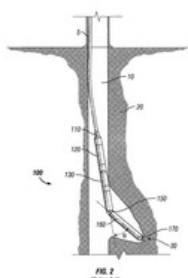
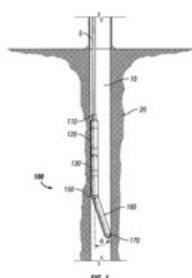
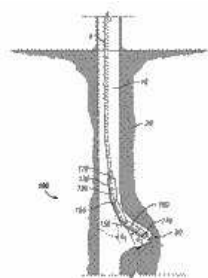
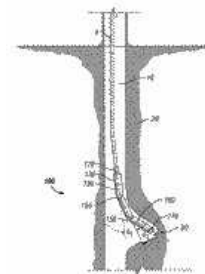
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#	  Title	Publication number	1st app. date	Applicant/Assignee	1st publ. date	Publ. date
1.	Real-time steerable acid tunneling system	CA2985349	2015-05-13	BAKER HUGHES* GENERAL ELECTRIC	2016-11-17	2016-11-17

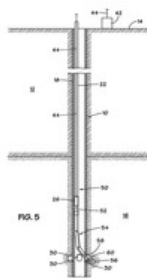
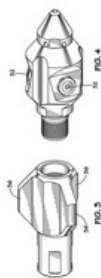
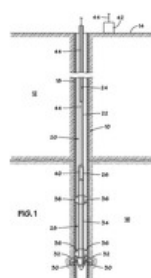
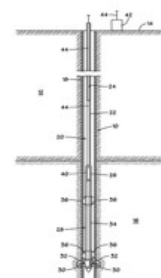
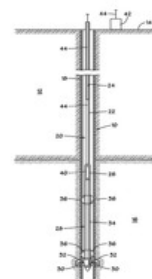
An acid tunneling system for forming lateral tunnels from a central wellbore. The acid tunneling system includes an acid tunneling tool having an acid injection nozzle which can be steered and oriented in response to downhole parameters that are detected and sent to surface in real time.

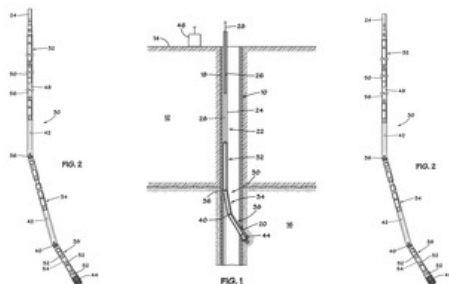


A bottom hole assembly connected to coiled tubing to create an acid tunnel in a wellbore formation. High pressure acid is pumped down the coiled tubing and out a nozzle located at the end of the bottom hole assembly. The bottom hole assembly includes a first reversible knuckle joint and a second reversible knuckle joint to properly position the nozzle against the wellbore and to allow the assembly to adjust its angle as it initiates and moves through the lateral tunnel. The two reversible knuckle joints increases the radius of curvature of the bottom hole assembly while providing a sufficient attack angle for the nozzle against the wellbore. The two knuckle joints may be adjusted in response to loads applied on the assembly as the assembly moves through the lateral tunnel.

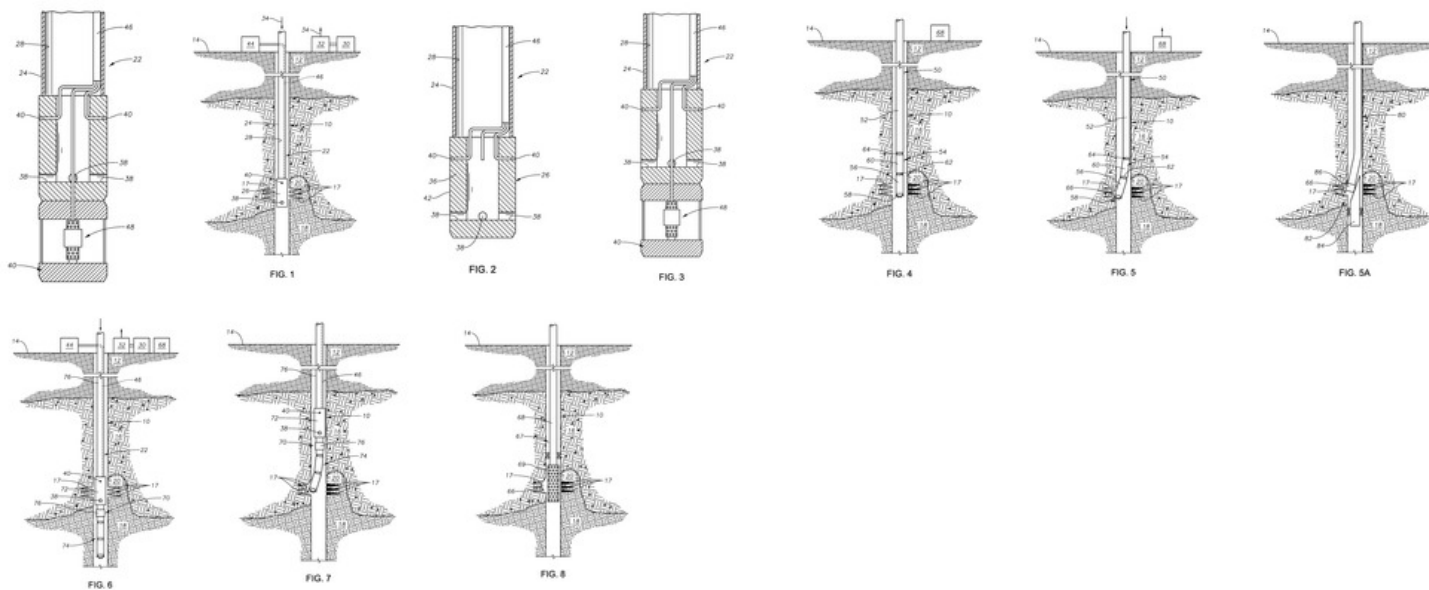


A system is for forming tunnels in formation radially surrounding a wellbore. The system is characterized by: a perforating tool arrangement having a perforating tool for forming an opening within the casing and a perforating tool sensor disposed upon the perforating tool to detect at least one wellbore parameter useful to identify a location or attributes of the opening; a tunneling tool arrangement having a tunneling tool for forming a tunnel within the formation through the opening; and a controller to receive data from the perforating tool sensor indicative of the wellbore parameter and to at least partially control operation of the tunneling tool based upon the at least one wellbore parameter sensed by the perforating tool sensor.

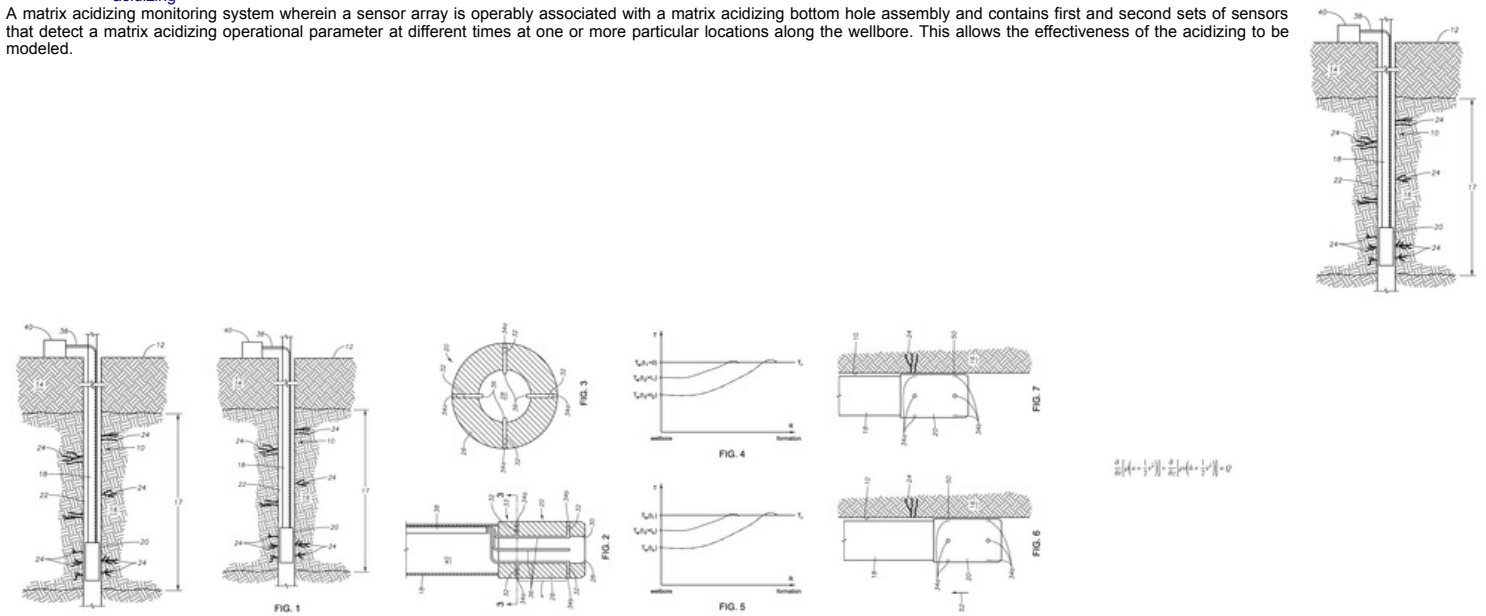




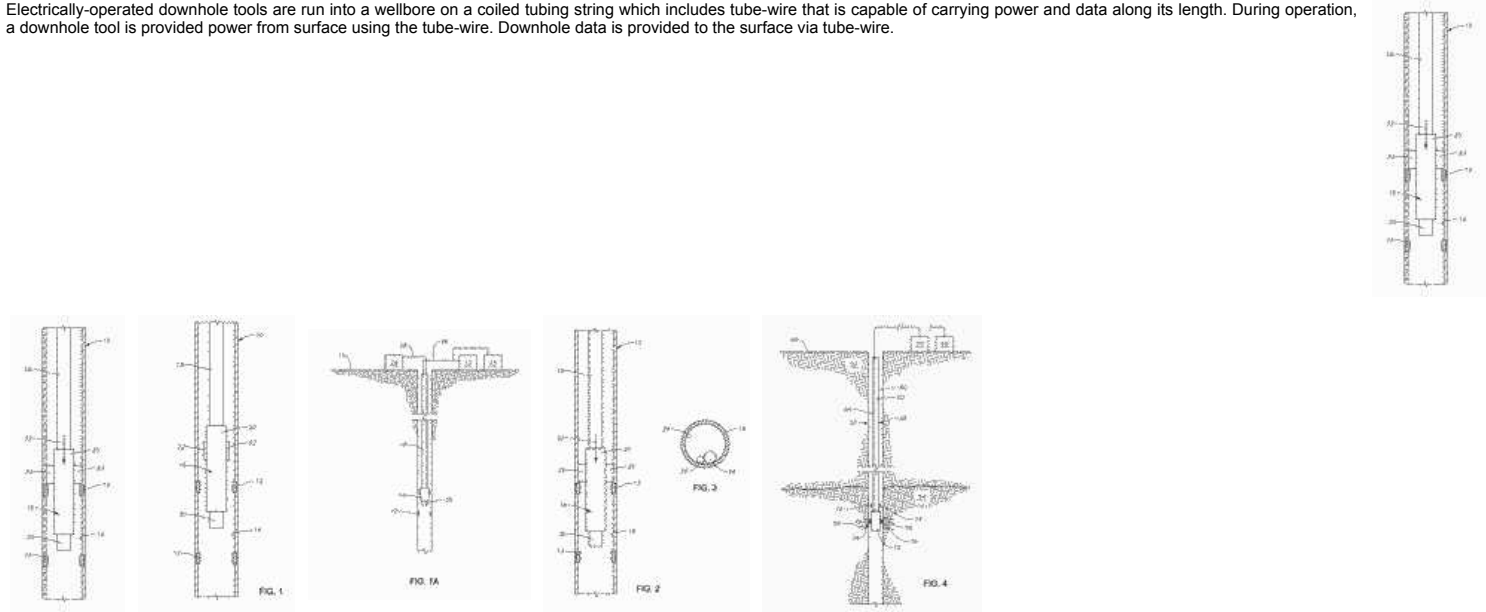
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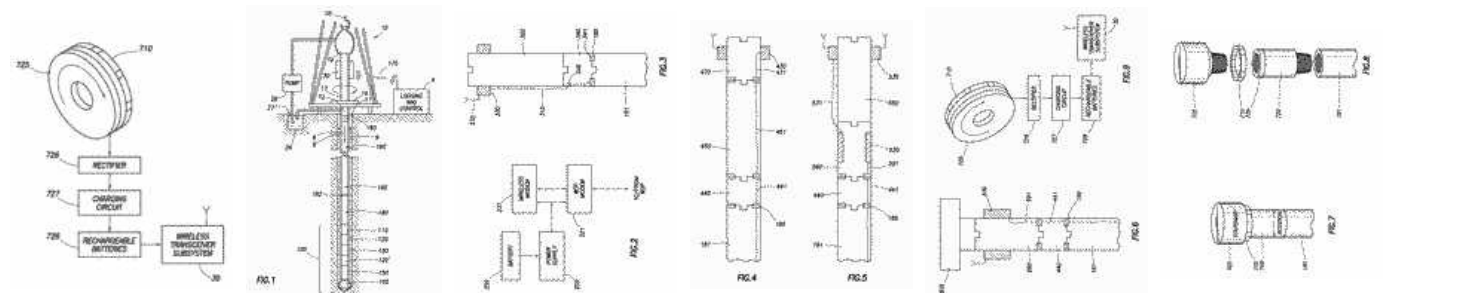
6.	Systems and methods for real-time evaluation of coiled tubing matrix acidizing	CA2929656	2013-11-25	BAKER HUGHES*	2015-05-28	2015-05-28
A matrix acidizing monitoring system wherein a sensor array is operably associated with a matrix acidizing bottom hole assembly and contains first and second sets of sensors that detect a matrix acidizing operational parameter at different times at one or more particular locations along the wellbore. This allows the effectiveness of the acidizing to be modeled.						



7.	Systems and methods for operating electrically-actuated coiled tubing tools and sensors	CA2971101	2015-12-15	BAKER HUGHES* CASTRO LUIS GENERAL ELECTRIC WATKINS THOMAS J YAMAHA MOTOR	2016-06-23	2016-06-23
Electrically-operated downhole tools are run into a wellbore on a coiled tubing string which includes tube-wire that is capable of carrying power and data along its length. During operation, a downhole tool is provided power from surface using the tube-wire. Downhole data is provided to the surface via tube-wire.						



The disclosure has application for use in conjunction with an operation of drilling an earth borehole (11) using: a drilling rig, a drill string (12) having its generally upper end mechanically coupleable with and suspendable from the drilling rig, and a bottom hole assembly adjacent the lower end the drill string, the bottom hole assembly (100) including a drill bit (15) at its lower end. A method is set forth for obtaining information about at least one parameter sensed at the bottom hole assembly, including the following steps: providing at least one measuring device in the bottom hole assembly, the at least one measuring device producing measurement data representative of a measured condition at the bottom hole assembly; providing an uphole processor system at the earth's surface; providing a drill string telemetry system coupled with the at least one measuring device and coupled with the uphole processor system; and transmitting the data from the measuring device to the uphole processor system via the drill string telemetry system.



Disclosed are a method, device and/or a system of rotating jetting device and associated methods to enhance oil and gas recovery. In one aspect, a jetting device includes a motor gearbox inside the jetting device, a central processing system coupled to the motor gearbox, a transducer assembly coupled with the motor gearbox and the central processing system, and a top assembly. The top assembly is electromechanically coupled with the motor gearbox, the transducer assembly, and the central processing system and causes the jetting device to rotate based on the set of instructions received from the central processing system.

